

Appl. No. 09/314,593  
Amdt dated August 7, 2003

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

01  
4

Claim 1 (currently amended): A method for transmitting streaming information in a packetized format, the method comprising:  
forming a first packet containing information generated over a first duration; and  
in response to a predetermined event, forming a second packet containing information generated over a second duration, the second duration being longer than the first duration;  
wherein duration is the length of time needed to generated play out the information in real time.

Claim 2 (previously presented): The method of Claim 1 wherein:  
information for the first packet and information for the second packet is received from a common information generator.

Claim 3 (previously presented): The method of Claim 1 wherein:  
information for the first packet is generated by an information generator different from another information generator that generates information for the second packet.

Claim 4 (previously presented): The method of Claim 1 wherein:  
the predetermined event includes an increase beyond a predetermined threshold of processing requirements in a device that receives the first packet and the second packet.

Claim 5 (previously presented): The method of Claim 1 wherein:  
the predetermined event includes an increase beyond a predetermined threshold in processing requirements in a device that transmits the first packet and the second packet.

Claim 6 (previously presented): A method for transmitting streaming information in a packetized format, the method comprising:

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forming a first packet containing information generated over a first duration; and  
in response to a predetermined event forming a second packet containing information  
generated over a second duration, the second duration being longer than the first duration;  
wherein the predetermined event includes an increase beyond a predetermined  
threshold in processing requirements in a device that transmits the first packet and the second  
packet; and

wherein information included in the first packet forms a portion of a first stream  
between a source device and a destination device, and the source device transfers additional  
information in at least one additional stream to or from another destination device, the method  
further comprising:

determining occurrence of the predetermined event when a predetermined number is  
exceeded by a total number of streams, including the additional stream and the first stream.

Claims 7-9 (canceled)

Claim 10 (previously presented): The method of Claim 1 wherein:  
the first packet has a first size; and  
the second packet has a second size, the second size being larger than the first size.

Claim 11 (previously presented): The method of Claim 1 further comprising:  
forming said first packet and said second packet in conformance with UDP protocol of  
Internet.

Claim 12 (previously presented): The method of Claim 1 further comprising:  
digitizing audio to generate the information.

Claim 13 (previously presented): The method of Claim 12 further comprising:  
encoding the audio subsequent to digitizing.

Claim 14 (previously presented): A method for transmitting streaming information in  
a packetized format, the method comprising:

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*Def. 1*  
forming a first packet containing information generated over a first duration;  
in response to a predetermined event, forming a second packet containing information  
generated over a second duration, the second duration being longer than the first duration;

wherein:

the information includes a plurality of snippets, each snippet having information  
received over a predetermined duration; and

the first packet includes a first number of snippets and the second packet includes a  
second number of snippets, the second number being greater than the first number.

*Def. 1*  
Claim 15 (canceled)

Claim 16 (original): The method of Claim 14 further comprising maintaining a jitter  
buffer within a range defined by a maximum size and a minimum size by:

adding two copies of a snippet to the jitter buffer if a current size of the jitter buffer is  
smaller than a minimum size;

dropping a snippet if the current size of the jitter buffer is larger than a maximum size;  
and

adding the snippet to the jitter buffer if the current size of the jitter buffer is between  
maximum size and minimum size.

\* Claim 17 (currently amended): A device including:

a memory;

an information controller coupled to the memory for storing information in the  
memory;

a packet controller coupled to the memory for transmitting a plurality of packets stored  
in the memory; and

a processor that uses information of a first duration as payload in each of said packets  
prior to occurrence of a predetermined event, and uses information of a second duration as  
payload after occurrence of the predetermined event;

wherein duration is the length of time needed to collect play out the information in  
real time.

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Claim 18 (previously presented): The device of Claim 17 wherein:  
the predetermined event is related to processing requirements of said processor.

Claim 19 (original): The device of Claim 18 wherein:  
the predetermined event is related to deterioration in performance of the processor;

and

the second duration is longer than the first duration.

Claim 20 (original): The method of Claim 14 wherein:  
the second number is a multiple of the first number.

Claim 21 (original): A method for transmitting streaming information in a packetized  
format, the method comprising:

forming a first packet containing information generated over a first duration; and  
in response to a predetermined event, forming a second packet containing information  
generated over a second duration;

wherein the predetermined event is related to deterioration in performance, and the  
second duration is longer than the first duration.

Claim 22 (original): The method of Claim 21 wherein:  
the second packet has a larger payload than the first packet.

Claim 23 (original): The method of Claim 1 further comprising:  
digitizing video to generate the information.

Claim 24 (original): The method of Claim 6 further comprising:  
digitizing video to generate the information.

Claim 25 (original): The method of Claim 6 further comprising:  
digitizing audio to generate the information.

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Claim 26 (original): The method of Claim 14 further comprising:  
digitizing video to generate the information.

Claim 27 (original): The method of Claim 14 further comprising:  
digitizing audio to generate the information.

Claim 28 (original): The method of Claim 21 further comprising:  
digitizing video to generate the information.

Claim 29 (original): The method of Claim 21 further comprising:  
digitizing audio to generate the information.

Claim 30 (original): The method of Claim 20 wherein:  
the multiple is 2.

Claim 31 (original): A method for transmitting streaming information in a packetized  
format, the method comprising:  
forming a first packet containing information generated over a first duration;  
receiving a second packet and determining occurrence of a predetermined event based  
on the second packet; and

in response to a predetermined event, forming a third packet containing information  
generated over a second duration, the second duration being longer than the first duration.

Claim 32 (original): The method of Claim 31 wherein the second packet includes  
information to be played over a duration longer than the first duration, the method includes:  
using the longer duration to decide occurrence of said predetermined event.

Claim 33 (original): The method of Claim 32 wherein:  
information in the second packet is part of a conference call.

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\* Claim 34 (currently amended): A method for transmitting streaming information in a packetized format, the method comprising:

forming a first packet containing information of a first quality; and  
in response to a change in system performance, forming a second packet containing information of a second quality that is different from the first quality;

wherein the system performance is performance as a whole of: comprises:

a device that forms the packets; and ✓

a network that carries the packets. ✓

Q1 cont. suggestion  
Claim 35 (currently amended): The method of Claim 34 wherein:  
the change in system performance represents a reduction in transmission of streaming information; and

the second quality is poorer than the first quality.

Claims 36-38 (canceled).

Ⓢ Claim 39 (currently amended): ~~The method of Claim 36 wherein:~~ A method for transmitting streaming information in a packetized format, the method comprising: data blocks  
forming a first packet containing a first number of snippets; and  
in response to an increase in processing requirements, forming a second packet containing snippets of a second number that is larger than the first number;  
wherein the increase in processing requirements occurs in a device that generates the packets.

Claim 40 (currently amended): The method of Claim [[36]] 39 wherein:  
the increase in processing requirements occurs in a device that handles the packets.

Claim 41 (currently amended): The method of Claim [[36]] 39 wherein:  
the packets are formed by a source device; and  
another device informs the source device about the increase.

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Claim 42 (original): The method of Claim 41 wherein:  
said another device informs the source device via an out of band signal.

Claim 43 (original): The method of Claim 41 wherein:  
said another device informs the source device via one or more bits in the header of a packet to be transmitted to the source device.

Claim 44 (original): The method of Claim 41 wherein:  
the first packet and the second packet belong to a first stream (hereinafter "source stream");  
said another device generates and transmits another stream (hereinafter "return stream") to the source device; and  
said another device informs the source device about need for the increase via an increase in payload size of the return stream.

Claim 45 (currently amended): The method of Claim [[36]] 39 wherein:  
the packets are formed by a source device; and  
the increase in processing requirements occurs in a network that is connected to the source device and carries the packets.

Claim 46 (currently amended): The method of Claim [[36]] 39 wherein:  
the packets are formed by a source device; and  
the increase in processing requirements occurs in the source device.

Claim 47 (currently amended): The method of Claim [[36]] 39 wherein:  
the increase in processing requirements is caused by an increase in a number of streams being generated by a device that generates the packets.

Claim 48 (currently amended): The method of Claim [[36]] 39 wherein:  
the increase in processing requirements is indicated by an increase in a number of page faults in a device that generates the packets.

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Claim 49 (currently amended): The method of Claim [[36]] 39 wherein:  
the increase in processing requirements is indicated by an increase in percentage of  
CPU utilization in a device that generates the packets.

Claim 50 (currently amended): The method of Claim [[36]] 39 wherein:  
the increase in processing requirements is indicated by an increase in a number of  
packets being transmitted at a port.

Claim 51 (currently amended): The method of Claim [[36]] 39 wherein:  
a destination device that receives the packets holds the snippets temporarily in a jitter  
buffer before playing information contained in the snippets; and  
the destination device uses the jitter buffer to average out variations in inter-arrival  
duration so that snippets are played out at a uniform rate.

Claim 52 (original): The method of Claim 51 further comprising maintaining said  
jitter buffer within a range defined by a maximum size and a minimum size by:  
adding two copies of a snippet to the jitter buffer if a current size of the jitter buffer is  
smaller than a minimum size.

Claim 53 (original): The method of Claim 51 further comprising maintaining said  
jitter buffer within a range defined by a maximum size and a minimum size by:  
dropping a snippet if a current size of the jitter buffer is larger than a maximum size.

Claim 54 (currently amended): The method of Claim [[36]] 39 further comprising:  
digitizing audio to generate the snippets.

Claim 55 (currently amended): The method of Claim [[36]] 39 further comprising:  
digitizing video to generate the snippets.

Claim 56 (currently amended): The method of Claim [[36]] 39 wherein:

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use of the second number of snippets is selective.

Claim 57 (currently amended): The method of Claim [[36]] 39 wherein:  
use of the second number of snippets is selective based on a telephone number.

Claim 58 (original): A method for transmitting streaming information in a packetized format, the method comprising:

transmitting packets for a stream using an initial payload size; and  
transmitting packets of an increased payload size, in response to any of:  
an increase in processing requirements; and  
an increase in payload size of packets being received.

Claim 59 (original): The method of Claim 58 wherein:  
packets of increased payload size are transmitted for said stream.

Claim 60 (original): The method of Claim 58 wherein:  
packets of increased payload size are transmitted for a new stream.

Claim 61 (original): The method of Claim 58 wherein:  
the initial payload size is equal to a first number of snippets; and  
the increased payload size is equal to a second number of snippets;  
the second number being larger than the first number.

Claim 62 (original): The method of Claim 58 wherein:  
the increased payload size is twice the initial payload size.

Claim 63 (original): A device including:  
a memory;

an information controller coupled to the memory for storing information snippets in  
the memory;

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a packet controller coupled to the memory for transmitting a plurality of packets stored in the memory; and

means for forming a first packet containing a first number of snippets and for forming a second packet containing snippets of a second number that is larger than the first number in response to an increase in processing requirements.

Claim 64 (original): The device of Claim 63 wherein:  
the processing requirements increase happens inside said means.

Claim 65 (original): The device of Claim 63 wherein:  
the processing requirements increase happens inside a network to which said means transmits said packets.

Claim 66 (currently amended): The device of Claim 63 wherein:  
~~said means is hereinafter "transmission means";~~  
the memory comprises a jitter buffer; and  
the device further comprises reception means for receiving packets from a network;  
wherein the reception means uses the jitter buffer to average out variations in inter-arrival duration of packets being received so that snippets of received packets are played out at a uniform rate.

Claim 67 (original): The device of Claim 66 further comprising:  
means for adding two copies of a snippet to the jitter buffer if a current size of the jitter buffer is smaller than a minimum size.

Claim 68 (original): The device of Claim 66 further comprising:  
means for dropping a snippet if a current size of the jitter buffer is larger than a maximum size.

Claim 69 (currently amended): A device comprising:

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first means for forming a first packet containing information collected to be played out over a first length of time in real time; and

second means, responsive to a predetermined event, for forming a second packet containing information collected to be played out over a second length of time in real time;

third means for switchably connecting the first means and the second means to a common input source.

Claim 70 (original): The device of Claim 69 further comprising:  
means for transmitting the packets, wherein:

the first packet belongs to an existing stream transmitted by the device; and  
the second packet belongs to a new stream to be transmitted by the device.

Claim 71 (original): The device of Claim 69 further comprising:  
means for transmitting the packets, wherein:

the first packet belongs to an existing stream transmitted by the device; and  
the second packet belongs to said existing stream.

Claim 72 (original): The device of Claim 69 wherein:

the predetermined event includes an increase beyond a predetermined threshold of  
processing requirements in another device that receives the first packet and the second packet.

Claim 73 (original): The device of Claim 69 wherein:

the predetermined event includes an increase beyond a predetermined threshold of  
processing requirements in said device.

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